MARITIME DOMAIN AWARENESS JOINT INTEGRATING CONCEPT JOINT OPERATING CONCEPT

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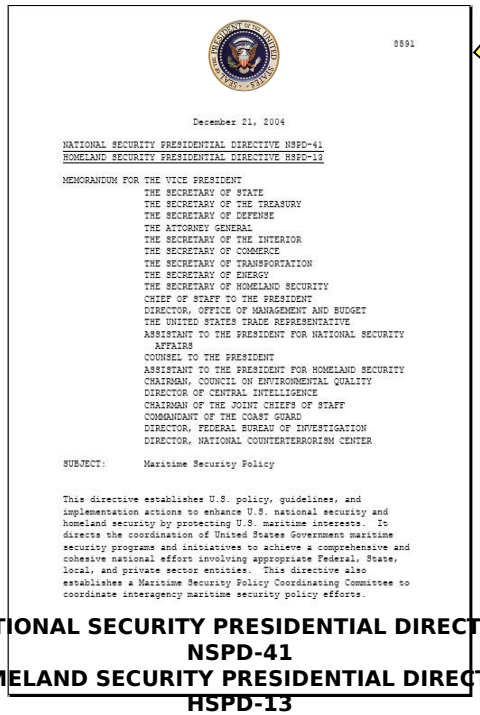
Resources and Analysis Directorate (J8)
9 January 2008

Strategic Guidance and Relevant Initiatives



December 21, 2004

NATIONAL SECURITY PRESIDENTIAL DIRECTIVE NSPD-41
HOMELAND SECURITY PRESIDENTIAL DIRECTIVE HSPD-13

MEMORANDUM FOR THE VICE PRESIDENT
THE SECRETARY OF STATE
THE SECRETARY OF THE TREASURY
THE SECRETARY OF DEFENSE
THE ATTORNEY GENERAL
THE SECRETARY OF THE INTERIOR
THE SECRETARY OF COMMERCE
THE SECRETARY OF TRANSPORTATION
THE SECRETARY OF ENERGY
THE SECRETARY OF HOMELAND SECURITY
CHIEF OF STAFF TO THE PRESIDENT
DIRECTOR, OFFICE OF MANAGEMENT AND BUDGET
THE UNITED STATES TRADE REPRESENTATIVE
ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY AFFAIRS
COUNSEL TO THE PRESIDENT
ASSISTANT TO THE PRESIDENT FOR HOMELAND SECURITY
CHAIRMAN, COUNCIL ON ENVIRONMENTAL QUALITY
DIRECTOR OF CENTRAL INTELLIGENCE
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
COMMANDANT OF THE COAST GUARD
DIRECTOR, FEDERAL BUREAU OF INVESTIGATION
DIRECTOR, NATIONAL COUNTERTERRORISM CENTER

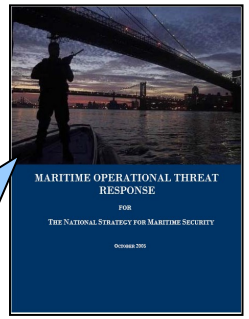
SUBJECT: Maritime Security Policy

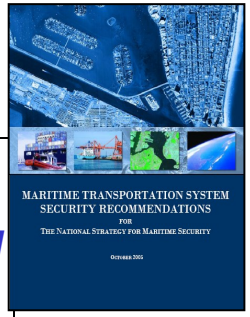
This directive establishes U.S. policy, guidelines, and implementation actions to enhance U.S. national security and homeland security by protecting U.S. maritime interests. It directs the coordination of United States Government maritime security programs and initiatives to achieve a comprehensive and cohesive national effort involving appropriate Federal, State, local, and private sector entities. This directive also establishes a Maritime Security Policy Coordinating Committee to coordinate interagency maritime security policy efforts.

NATIONAL SECURITY PRESIDENTIAL DIRECTIVE NSPD-41
HOMELAND SECURITY PRESIDENTIAL DIRECTIVE HSPD-13
Maritime Security Policy, December 21, 2004

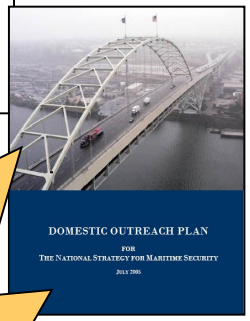
Comprehensive Maritime Awareness

Global Trader





Quadrennial Defense Review



Cargo

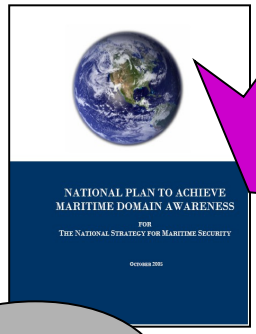
People

Infrastructure

Vessels

Info Hubs

JOE

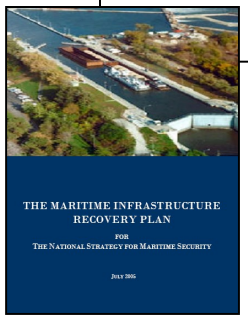


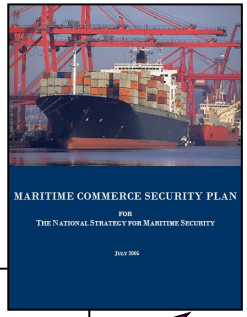
National Security Strategy

OPNAV Executive Agent

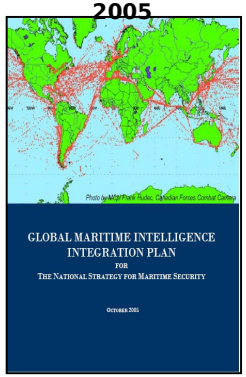
The National Strategy for Maritime Security

September 2005





September, 2005



National Military Strategy

GMSA

UNCLASSIFIED

Quad Chart – Maritime Domain Awareness Joint Integrating Concept Proposal

SCOPE

This concept describes the *missions, tasks, capabilities*, and *attributes* of the maritime domain awareness environment and integrates and coordinates numerous (roughly 14) independent *studies, initiatives, technologies,* and *concept demonstrations* addressing maritime domain awareness. It will economize effort by *creating mutual support* and *eliminating redundancy* and duplication of effort for *current*, *near-future*, and *distant future* requirements and activities.

SOLUTION/CENTRAL IDEA

Maritime domain awareness has become more complex in light of irregular warfare tactics employed by terrorists and rogue states. The solution must be a combination of various *information management*, *analysis*, and *collaboration tools* and *systems* using existing mature and/or developing capabilities to create a reinvigorated network of awareness that enables *prevention*, *interdiction* and if necessary *neutralization* of validated threats. Result: Improvements in sensor capabilities, data warehousing, data fusion, mission-tailored alerting, interagency and friendly nation info sharing and collaboration, and full Battlespace Awareness of the Maritime Domain.

SUMMARY PROBLEM

(1)There is no comprehensive *end-to-end capability for detecting, identifying, fusing and analyzing maritime data* to include people, cargo, vessels, and infrastructure required to develop an effective understanding of the trends, changes, and anomalies necessary to make decisions about navigation, HA/DR and potential threats.

(2)There is no *integrated mechanism for joint, inter-agency, and international organizations to alert each other* for the purposes of protection, safety, operations, and interdiction.

OPR and JUSTIFICATION

OPR: US PACOM J81 Command as lead for joint concept development and experimentation required.

JUSTIFICATION:

National Security Presidential Directive 41

Homeland Security Presidential Directive 13

National Defense Strategy (NDS)

National Military Strategy (NMS)

National Strategy for Maritime Security (NSMS)

Joint Capability Areas Mapped

Tier 1

- **Joint Maritime/Littoral Operations**
- **Joint Access and Access Denial**
- **Joint Protection**
- **Joint Command and Control**
- **Joint Interagency/IGO/MN/NGO Coordination.**

Tier 2

- **Maritime Interdiction**
- **Maritime/Littoral Expeditionary Operations**
- **Maritime/Littoral Fires**
- **Ocean/Hydro/River Survey and Support Ops**
- **Surface Warfare; Undersea Warfare**
- **Freedom of Navigation**
- **LOC Protection**
- **Synchronize Execution Across All Domains**
- **Leverage Mission Partners**
- **Protect Against Terrorist Threat**
- **Protect Against WMD Threat**
- **US Government Interagency Integration**
- **Multinational Coordination**
- **Intergovernmental Organization Coordination**

Tier 1 MDA Capability Gaps

Fusion / Analysis

- **Improve the sharing of cargo data between DHS and DoD**
- **Upgrade the cargo screening process, especially for international cargo not entering or existing a US port**
- **Analyze data and information in order to vet all crew and passengers for inbound, outbound, and international voyages, as well as Maritime Interdiction Operations (MIO)**
- **Develop a robust cross-agency global crew and passenger vetting data base capability**
- **Perform both predictive and current operations analysis to determine which vessels are high risk and should be monitored or interdicted**
- **Fuse and analyze all source data to maintain tracks on small or uncooperative, non-emitting vessels and provide alerts for suspicious behavior**
- **Provide critical fusion and analysis capabilities to accomplish near real-time vessel identification and tracking for “all” vessels operating in areas of interest**

Tier 1 MDA Capability Gaps

Management

- **Improve / establish interagency procedures to receive, process, assess, and display information, provide tasking, and support decision making across the MDA COI**

Net Centric Dissemination

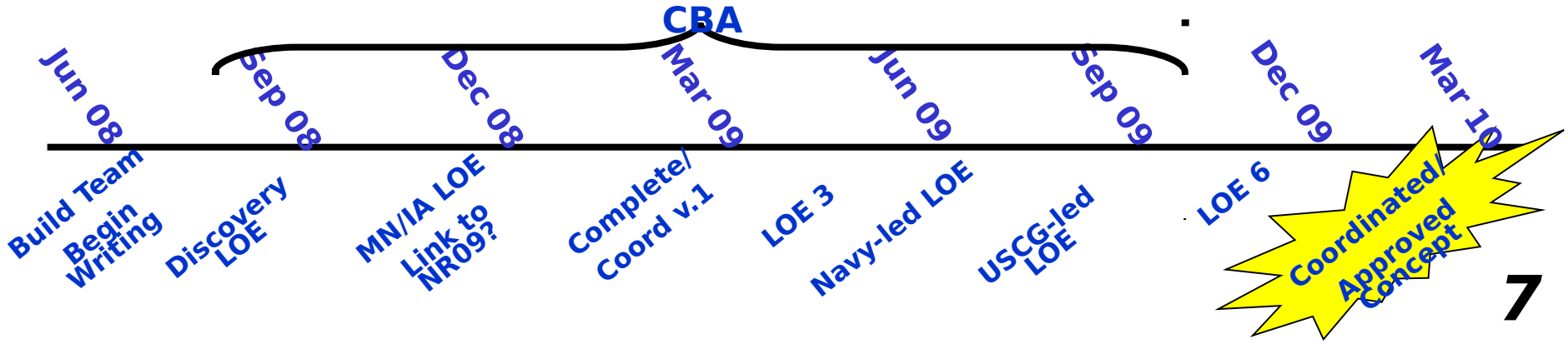
- **Enable network access to all designated nodes**
- **Implement Information Assurance (IA) and Cross Domain Security procedures across the MDA COI**
- **Establish MDA data standards and strategy across the MDA COI**

Collections

- **Collect “All Source” data for non-emitting vessels**
- **Collect “All source” data to facilitate the capability to access and display designated cargoes transiting internationally**
- **Collect information on all vessel owners, operators, charterers, agents, and commercial personnel (inbound to US)**
- **Develop information collection requirements against threats to personnel, operations, or infrastructure**

Proposed Plan of Action and Milestones

- 12-month concept-writing/development effort
- 6 distributed limited objective experiments (LOEs)
  - 2 LOEs within USPACOM AOR
    - 1 LOE US-focus
    - 1 LOE multi-national
  - 2 LOEs led by USNORTHCOM
    - 1 LOE in Atlantic area with USEUCOM
    - 1 LOE in Pacific area with USPACOM
  - 1 LOE (perhaps first one) focused on US Navy requirements, as DoD executive agend for MDA
  - 1 LOE (not necessarily the last one) focused on US Coast Guard and inter-agency requirements



Why USPACOM Concept Solution?

- ✓ **Relevance of current and future Joint Operating Environment**
  - **55% of earth's surface**
  - **Predominantly maritime environment**
  - **Rogue actors**
  - **Key U.S. interests to protect**
- ✓ **Integrated architecture for concept development and joint experimentation (USPACOM J8)**
- ✓ **Combatant Commander attention and involvement**
- ✓ **Minimal cost due to resident expertise and command relationships**

Endorsements

- **Commander, USPACOM**
- **Dep Director, GMSA, USCG**
- **Principal Maritime Analyst, OASD HD & ASA**
- **OPNAV N6, N8**
- **USCENTCOM**
- **USEUCOM**
- **USJFCOM MDA Lab**
- **USNORTHCOM**